

<u>TI</u> <u>PRODUCT</u>	<u>ECHNICAL DATA SHEET</u> : UT105 TWO-PACK ACRYLIC STRUCTURED METALLIC COLOURS				
DESCRIPTION	 : UT105 2-pack topcoat is an acrylic polyurethane available in a range of fine, medium and coarse particle size metallic colours. The product is designed to maintain maximum appearance for the maximum length of time. Its principal application areas are for the decoration and protection of kitchens, auto-refinish, buses, marine craft, signage, CFC panelling and masonry. 				
PROPERTIES					
COLOUR	: Selected chart colours. Matchings are available on request.				
GLOSS LEVEL	: Semi Gloss.				
	The final gloss level can be adjusted by the gloss level of the clear				
	finishing coat used as a protective overlay.				
WEATHERING	: Excellent				
CHEMICAL RESISTANCE	: Very good.				
SOLVENT RESISTANCE	: Very good.				
ABRASION RESISTANCE	: Very good.				
TEMPERATURE RANGE	: From -30 °C Up to 150 °C (dry)				
TECHNICAL DATA					
RECOMMENDED FILM BUILD					
VOLUME SOLIDS	: approximately 40 %				
THEORETICAL COVERAGE	: approximately 10 metres ² per litre at 100 microns wet.				
COMPONENTS	: Two.				
MIXING RATIO	: 4 parts Part "A" : 1 part Part "B" by volume				
DRYING AT 25 °C	: Touch dry : 2 hours Handleable: 6 hours				
	Recoat : 4 hours Full cure : 5 days				

Curing times are adversely affected by excessive paint film thickness, improper surface preparation, improper drying conditions and incorrect thinner selection.

UT100 U-Thane Thinner is suitable for use at air temperatures up to 25°C

UT101 Medium U-Thane Thinner is suitable for use at air temperatures exceeding 25°C or for larger and/or more complex areas.

These two different thinners may be cross blended to give the required properties needed to suit the application and/or prevailing weather conditions.

Consult the manufacturer for special circumstances.



TECHNICAL DATA SHEET

UT105 TWO-PACK ACRYLIC STRUCTURED METALLIC COLOURS

TECHNICAL DATA (continued) CHEMICALLY ASSISTED DRVING AT 25°C

CHEMICALL'I ASSISTED DATING AT 25 C				
Touch dry	: 1 hour	Handleable	: 3 hours	
Recoat	: 2 hours	Full cure	: 3 days	
: 8 hours				
: Air or airless spray.				
Chemically a	assisted drying requires	s air atomizatio	n or shaping air.	
: 23 °C				
: 12 months (minimum) in original sealed containers				
: Part A	art A 1 litre, 4 litre, 20 litre open head metal containers			
Part B	1 litre, 5 litre screwto	p metal contair	ners	
	Touch dry Recoat : 8 hours : Air or airles Chemically a : 23 °C : 12 months (n : Part A	Touch dry : 1 hour Recoat : 2 hours : 8 hours : Air or airless spray. Chemically assisted drying requires : 23 °C : 12 months (minimum) in original s : Part A 1 litre, 4 litre, 20 litre	Touch dry: 1 hourHandleableRecoat: 2 hoursFull cure: 8 hours: Air or airless spray. Chemically assisted drying requires air atomizatio: 23 °C: 12 months (minimum) in original sealed contained: Part A1 litre, 4 litre, 20 litre open head me	

SYSTEM RECOMMENDATIONS

<u>SUBSTRATE</u>	PREPARATION	COATING SEQUENCE	FILM BUILD WET (DRY)
STEEL	Abrasive blast Clean AS1627.4 class2.5 (min)	1 st coat : BC300 2-pack Metal Etch Primer. or	40 (10) microns
		1 st coat : EP210 2-pack Anticorrosive Primer. Finish coat: UT105 Series 2-Pack	150 (75) microns 100 - 120 (40 - 48) microns
		Acrylic Topcoat.*	
GALVANISED STEEL	Degrease and mechanically abrade.	1 st coat : EP200 2-pack Epoxy Primer.	80 - 100 (30 - 40) microns
	New gal may require acid wash	Finish coat: UT105 Series 2-Pack Acrylic Topcoat.*	100 - 120 (40 - 48) microns
ALUMINIUM	Degrease thoroughly.	1 st coat : BC300 2-pack Metal Etch Primer.	40 (10) microns
	Abrade if necessary.	or 1 st coat : EP200 2-pack Epoxy Primer.	80 - 100 (30 - 40) microns
		Finish coat: UT105 Series 2-Pack Acrylic Topcoat.*	100 - 120 (40 - 48) microns.
G.R.P.	Remove mould release or degrease.	1 st coat : EP200 2-pack Epoxy Primer.	80 - 100 (30 - 40) microns
		Finish coat: UT105 Series 2-Pack Acrylic Topcoat.*	100 - 120 (40 - 48) microns.

* Note that a final clear coat is optional, but strongly recommended to enhance the appearance and to offer maximum protection.



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SUBSTRATE	PREPARATION	COATING SEQUENCE	FILM BUILD WET (DRY)
TIMBER * * UT100/UT105 on externally exposed timber - not recommended	Sand and remove dust.	 1st coat : UT300 or UT320 2-pack Timber Sealer. 2nd coat : UT240 2-pack Sanding Undercoat. or 1st coat : UT240 2-pack Sanding Undercoat. or 1st coat : EP200 2-pack Epoxy Primer. Finish coat: UT105 Series 2-Pack Acrylic Topcoat.* 	50 - 60 (30 40) microns 80 - 100 (30 - 40) microns 100 - 120 (40 - 48) microns 80 - 100 (30 - 40) microns
CFC PANELS / MASONRY	Remove dust, oil, grease and loose material from aged surfaces.	1st coat: EP200 2-pack Epoxy Primer.orUT100 Series Acrylic Topcoat.Finish coat:UT105 Series 2-Pack Acrylic Topcoat.*	80 - 100 (30 - 40) microns 100 - 120 (40 - 48) microns 100 - 120 (40 - 48) microns

^{*} Note that a final clear coat is optional, but strongly recommended to enhance the appearance and to offer maximum protection.



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SURFACE PREPARATION	
STEEL	 Remove any grease or oil using suitable solvent or water based degreaser. Acid or alkali presence should be neutralized with appropriate products followed by thorough rising with clean water. Any other foreign matter, eg. rust, mill-scale & etc., should be abrasively blast cleaned to Australian standard AS1627.4 Class 2.5 for ambient conditions or Class 3 for immersion conditions.
GALVANISED STEEL OR	
ALUMINIUM	: Remove any grease or oil using suitable solvent or water based degreasers. (See AS16271.1). Mechanical abrasion and dust off should follow.
CFC/MASONRY	: Acid wash new masonry surfaces using dilute hydrochloric acid. Wash with fresh water and allow to fully dry. CFC should be dry sanded and all dust or loose surface material blown away with dry clean compressed air.
TIMBER / M.D.F.	: Sand or de-nib and dust off prior to sealing.
G.R.P	 Remove any grease, oil or mould release using suitable solvent or water based degreaser. Allow to dry thoroughly before coating.



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APPLICATION			
MIXING	 Stir each of the components till homogenous. Mix all base and hardener components until fully blended. Allow to stand for 10 - 15 minutes prior to commencing application. For smaller quantities mix 4 parts of base to 1 part hardener by volume. 		
THINNING	: Use the recommended thinner(s) only, up to a maximum of 10 - 40 % by volume, depending on the method of application employed.		
SPRAYING	: Conventional suction or gravity feed spray gun 1.2 mm - 1.5 mm Fluid orifice using 385 kPa (50 psi).		
	: Conventional pressure pot: 1.5 mm Fluid orifice using 385 kPa (50 psi). Pressure at pot : 65 kPa (10 psi) Pressure at Gun : 385 kPa (50 psi)		
AIRLESS	: Standard airless equipment using 28.1pump ratio and fluid tip range 475 - 525 microns (0.019 - 0.021 inches) and supply air at 520 - 650 kPa (80 - 100p.s.i). Thin as necessary with UT100 U-Thane Thinner.		

EQUIPMENT CLEANUP : All equipment should be thoroughly cleaned with UT100 U-Thane Thinner



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USE OF OVERLAY CLEAR FINISHES.

The use of a final coat of clear is optional, but is strongly recommended for the following reasons :-

- (1) The metallic particles, because of their shape and size, may microscopically protrude above the surface of the paint film
- (2) This may make feel the surface feel slightly rough &/or scratchy
- (3) The protruding metallic particles may be abraded in time and change the appearance of the finish
- (4) The rough surface acts a magnet for dirt, oil & grease pickup, fly spotting, fingerprints & etc., so a coat of clear will be an aid in keeping the surface cleaner for longer
- (5) Even though BC Coatings has taken all care to select and use the most corrosion resistant grades of metallic pigments available, in time the bare metallic finish may be subject to attack from acids, alkalis and harsh cleaning agents. The final clear coat offers protection from these chemicals
- (6) The use of a clear overlay enhances the appearance of the article
- (7) The gloss level of the UT105 Structured Metallic colors is normally a Semigloss. The use of clear finishes in the available range of glosses (Matte, Satin, Semigloss and Gloss) offers the applicator a way of providing a range of finished gloss levels while minimizing inventory.



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PRECAUTIONS					
SAFETY	 Provide adequate ventilation during use. Airflow should be adequate to ensure a comfortable working atmosphere. When spray painting, users should comply with the provisions of the State Spray Painting Regulations. Where this is not possible, operators must use an air supplied respirator complying with Australian Standards AS1715 and AS1716. 				
	This product is flammable and all sources of ignition (flames, pilot lights, furnaces, spark producing switches, etc.) must be eliminated in, or near the application area. DO NOT SMOKE.				
	This product is poly-isocyanate catalysed and all the necessary precautions must be observed when handling this type of material. Avoid contact with skin and eyes.				
	Wear protective g In the case of skin skin thoroughly w Seek medical atte	n contact, vith clean	remove cor water.	ntaminated clothi	ng and wash
GENERAL	 Freshly mixed material must NOT be added to material which has been in use for some time. Rate of cure is dependent upon temperature. Do not apply this product at temperatures below 10 °C or relative humidities above 85%. Ensure maximum recoat interval is not exceeded otherwise surface must be lightly abraded and then dusted to ensure maximum inter-coat adhesion. Shelf life is normally12 months in original sealed containers, but depends on storage conditions. 				
DANGEROUS GOODS	Part A Class 3	UN	1263	PAINT	LFP
	Part B Class 3	UN	1866	PAINT	LFP

This data sheet is based on information in BC Coatings possession at date of issue. BC Coatings supplies its products only on condition that the consumer is satisfied as to the performance of the product in meeting his particular requirements.